



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
KEMP QUARRIES / RIVER VALLEY OZARK

Machine Id
WL091

Component
Rear Differential

Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0086935	PCA0086189	PCA0034839
Sample Date		Client Info		16 Apr 2024	13 Jan 2023	23 Jan 2021
Machine Age	hrs	Client Info		25576	24686	23316
Oil Age	hrs	Client Info		184746	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	None	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 1266	▲ 1291	▲ 2558
Chromium	ppm	ASTM D5185m	>10	1	2	4
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		1	4	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	8	9
Lead	ppm	ASTM D5185m	>25	1	1	2
Copper	ppm	ASTM D5185m	>100	7	22	8
Tin	ppm	ASTM D5185m	>10	0	2	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

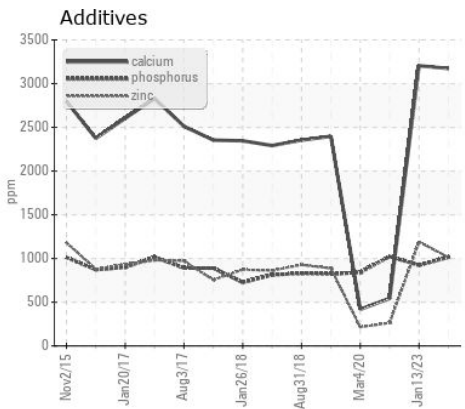
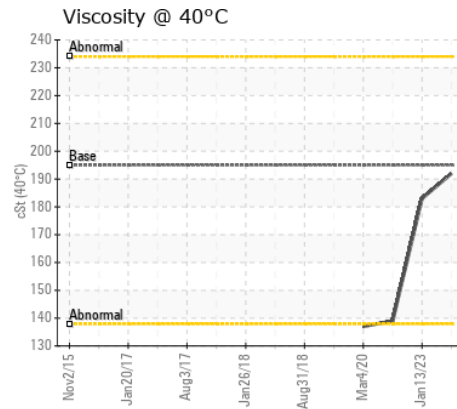
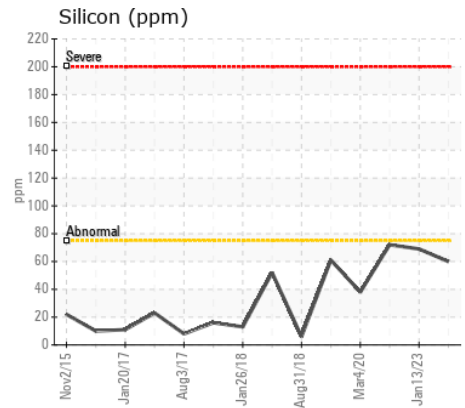
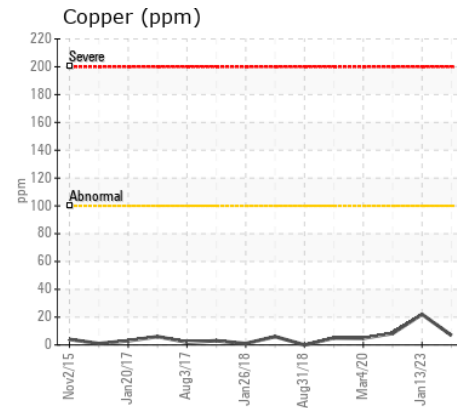
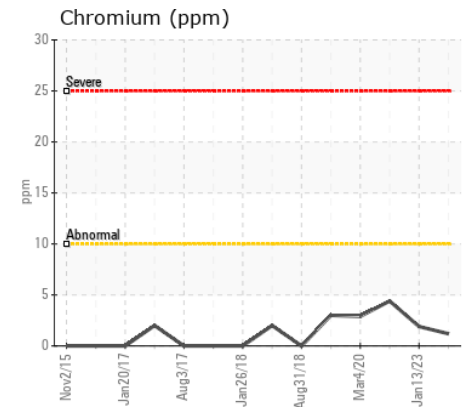
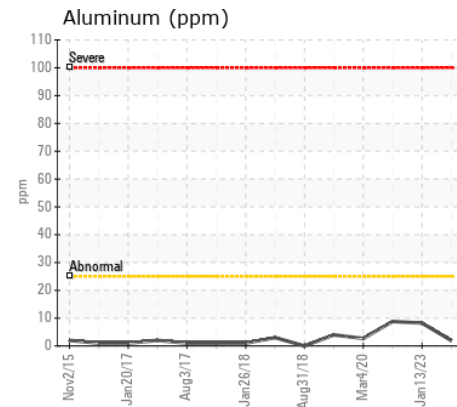
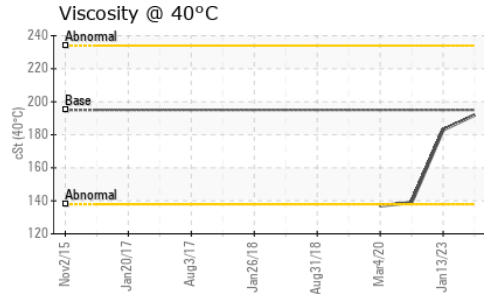
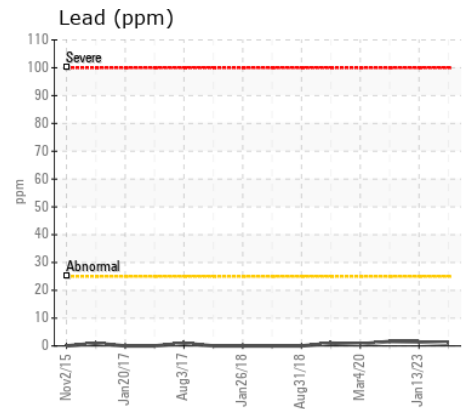
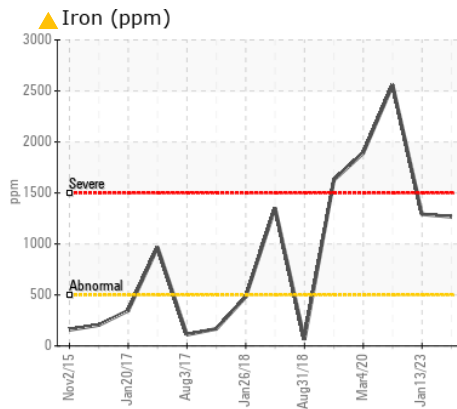
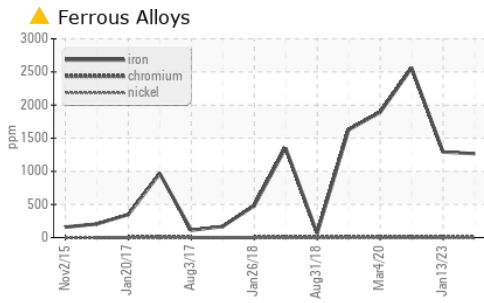
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	60	69	72
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	4	4
Boron	ppm	ASTM D5185m		3	17	116
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	2	4
Manganese	ppm	ASTM D5185m		9	10	17
Magnesium	ppm	ASTM D5185m		15	31	58
Calcium	ppm	ASTM D5185m		3173	3205	544
Phosphorus	ppm	ASTM D5185m		1015	923	1023
Zinc	ppm	ASTM D5185m		1015	1189	264
Sulfur	ppm	ASTM D5185m		5040	7382	24322
Visc @ 40°C	cSt	ASTM D445	195	192	183	139



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086935 **Received** : 19 Apr 2024
Lab Number : 06155368 **Tested** : 24 Apr 2024
Unique Number : 10990791 **Diagnosed** : 24 Apr 2024 - Jonathan Hester
Test Package : MOB 1

Kemp Quarries - River Valley - Ozark
 9446 N Hwy 309
 Ozark, AR
 US 72949
 Contact:
 ozark@rivervalleyquarries.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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